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(19)



JAPANESE PATENT OFFICE

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**PATENT ABSTRACTS OF JAPAN**

(11) Publication number: **54136017 A**  
(43) Date of publication of application: **22.10.1979**

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(51) Int. Cl      **B61B 13/08**

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|--------------------------|-------------------|-----------------|---------------------|
| (21) Application number: | <b>53041090</b>   | (71) Applicant: | <b>TOSHIBA CORP</b> |
| (22) Date of filing:     | <b>07.04.1978</b> | (72) Inventor:  | <b>SAIMA TORU</b>   |

**(54) ELECTROMAGNET APPARATUS FOR  
PARACONDUCTIVE MAGNETIC  
LEVITATION VEHICLE**

**(57) Abstract:**

**PURPOSE:** To reduce the weight of the track using the electromagnet as a reinforcing member by integration of iron cores forming thereof provided longitudinally on the truck.

**CONSTITUTION:** A levitation electromagnet 25 has

coils 27a, 27b, 27c and 27d respectively arranged on each pair of magnetic poles 26a, 26b, 26c and 26d. These sets of the magnetic poles 26a, 26b, 26c and 26d are individually dependent of each other. But the core backs 28 respectively forming magnetic paths for the magnetic pole backs are integrated in common to all the magnetic poles while rise sections 29a and 29b are left between each set of magnetic pole 26c and 26b and 26d respectively arranged in the longitudinal way to make up for the lengthwise strength.

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